



**UNITED STATES
NUCLEAR REGULATORY COMMISSION**

REGION III
2443 WARRENVILLE RD. SUITE 210
LISLE, IL 60532-4352

September 2, 2014

Mr. Ernest Harkness
Site Vice President
FirstEnergy Nuclear Operating Company
Perry Nuclear Power Plant
P. O. Box 97, 10 Center Road, A-PY-A290
Perry, OH 44081-0097

SUBJECT: MID-CYCLE ASSESSMENT LETTER FOR PERRY NUCLEAR POWER PLANT

Dear Mr. Harkness:

On August 5, 2014, the U.S. Nuclear Regulatory Commission (NRC) completed its mid-cycle performance review of the Perry Nuclear Power Plant. The NRC reviewed the most recent quarterly performance indicators (PIs) in addition to inspection results and enforcement actions from July 1, 2013, through June 30, 2014. This letter informs you of the NRC's assessment of your facility during this period and its plans for future inspections at your facility.

The NRC determined that overall, Perry Nuclear Power Plant was operated in a manner that preserved public health and safety and met all cornerstone objectives. The NRC determined the performance at Perry during the most recent quarter was within the Licensee Response Column (Column 1) of the NRC's Reactor Oversight Process (ROP) Action Matrix because all inspection findings had very low (i.e., green) safety significance, and all PIs indicated that your performance was within the nominal, expected range (i.e., green). Therefore, the NRC plans to conduct ROP baseline inspections at your facility.

As a result of the Safety Culture Common Language Initiative, the terminology and coding of cross-cutting aspects were revised. All cross-cutting aspects identified during inspections conducted in calendar year 2014 reflect this revision to Inspection Manual Chapter (IMC) 0310. Cross-cutting aspects identified in 2013 using the 2013 terminology were converted to the latest revision in accordance with the cross-reference in IMC 0310 during the mid-cycle assessment review and evaluated for cross-cutting themes and potential substantive cross-cutting issues in accordance with IMC 0305.

The enclosed inspection plan lists the inspections scheduled through December 31, 2015. Routine inspections performed by resident inspectors are not included in the inspection plan. The inspections listed during the last nine months of the inspection plan are tentative and may be revised at the end-of-cycle performance review. The NRC provides the inspection plan to allow for the resolution of any scheduling conflicts and personnel availability issues. The NRC will contact you as soon as possible to discuss changes to the inspection plan should circumstances warrant any changes. This inspection plan does not include security-related inspections, which will be sent via separate, non-publicly available correspondence.

The NRC also plans to conduct non-routine inspections and temporary instructions at your facility, including: Inspection Procedure (IP) 71111.11(B), "Licensed Operator Requalification Program and Licensed Operator Performance (Biennial)," and IP 71152(B), "Problem Identification and Resolution (Biennial)."

In response to the accident at Fukushima, the Commission issued Order EA-12-049, "Order Modifying Licenses with Regard to Requirements for Mitigation Strategies for Beyond-Design-Basis External Events," which requires licensees to develop, implement, and maintain guidance and strategies to maintain or restore core cooling, containment, and spent fuel pool cooling capabilities following a beyond-design-basis external event. Additionally, the Commission issued Order EA-12-051, "Order Modifying Licenses with Regard to Reliable Spent Fuel Pool Instrumentation," which requires licensees to have a reliable means of remotely monitoring wide-range Spent Fuel Pool levels to support effective prioritization of event mitigation and recovery actions in the event of a beyond-design-basis external event. The NRC is conducting audits of licensee efforts towards compliance with these Orders. This audit includes an onsite component in order for the NRC to evaluate licensee plans for complying with the Orders, as described in site-specific submittals, and to receive and review information relative to associated open items. This onsite activity will occur in the months prior to a declaration of compliance for the first unit at each site, and will aid staff in development of an ultimate Safety Evaluation for the site. The date for the onsite component at your site is being coordinated with your staff. A site-specific audit plan for the visit will be provided in advance to allow sufficient time for preparations.

In accordance with Title 10 of the *Code of Federal Regulations* 2.390, "Public Inspections, Exemptions, Requests for Withholding," of the NRC's "Rules of Practice," a copy of this letter and its enclosure will be available electronically for public inspection in the NRC Public Document Room or from the Publicly Available Records System (PARS) component of NRC's Agencywide Documents Access and Management System (ADAMS). ADAMS is accessible from the NRC Web site at <http://www.nrc.gov/reading-rm/adams.html> (the Public Electronic Reading Room).

E. Harkness

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Please contact me at 630-829-9618, with any questions you may have regarding this letter or the inspection plan.

Sincerely,

/RA/

Michael Kunowski, Chief
Branch 5
Division of Reactor Projects

Docket No. 50-440
License No. NPF-58

Enclosure:
Perry Nuclear Power Plant
Inspection/Activity Plan

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E. Harkness

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Perry
Inspection / Activity Plan
09/01/2014 - 12/31/2015

Unit Number	Planned Dates		Inspection Activity	Title	No. of Staff on Site
	Start	End			
			BI EPX - EP EXERCISE INSPECTION / PI VERIFICATION		2
1	09/22/2014	09/26/2014	IP 71151	Performance Indicator Verification	
			BI RP - RADIATION PROTECTION BASELINE INSPECTION		1
1	09/15/2014	09/19/2014	IP 71124.03	In-Plant Airborne Radioactivity Control and Mitigation	
1	09/15/2014	09/19/2014	IP 71124.04	Occupational Dose Assessment	
			EXERCISE - BIENNIAL EXERCISE		1
1	09/23/2014	09/23/2014	W90324	EXERCISE - PERRY - SEPT. 2014 - HAB - REGION ONLY	
			BI OLRQ - BIENNIAL REQUAL PROGRAM INSPECTION		2
1	12/01/2014	12/05/2014	IP 7111111B	Licensed Operator Requalification Program	
			OL PREP - INIT EXAM/FEB 2015		3
1	01/12/2015	01/16/2015	W90333	OL - INITIAL EXAM - 2015 FEB - PERRY	
			OL EXAM - INIT EXAM/FEB. 2015		3
1	02/02/2015	02/13/2015	W90333	OL - INITIAL EXAM - 2015 FEB - PERRY	
			BI ISI - ISI INSPECTION		1
1	02/16/2015	03/29/2015	IP 7111108G	Inservice Inspection Activities - BWR	
			BI RP - RADIATION PROTECTION BASELINE INSPECTION		2
1	03/30/2015	04/03/2015	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
1	03/30/2015	04/03/2015	IP 71124.02	Occupational ALARA Planning and Controls	
			BI RP - RADIATION PROTECTION BASELINE INSPECTION		1
1	05/04/2015	05/08/2015	IP 71124.06	Radioactive Gaseous and Liquid Effluent Treatment	
			BI RP - RADIATION PROTECTION BASELINE INSPECTION		1
1	06/08/2015	06/12/2015	IP 71124.07	Radiological Environmental Monitoring Program	
1	06/08/2015	06/12/2015	IP 71151-BI01		
1	06/08/2015	06/12/2015	IP 71151-OR01		
1	06/08/2015	06/12/2015	IP 71151-PR01		
			BI HS - TRIENNIAL HEAT SINK INSPECTION		2
1	06/08/2015	06/12/2015	IP 7111107T	Heat Sink Performance	
			BI EPR - EP ROUTINE INSPECTION / PI VERIFICATION		2
1	07/06/2015	07/10/2015	IP 7111402	Alert and Notification System Testing	
1	07/06/2015	07/10/2015	IP 7111403	Emergency Preparedness Organization Staffing and Augmentation System	
1	07/06/2015	07/10/2015	IP 7111405	Correction of Emergency Preparedness Weaknesses and Deficiencies	
1	07/06/2015	07/10/2015	IP 71151	Performance Indicator Verification	

This report does not include INPO and OUTAGE activities.
This report shows only on-site and announced inspection procedures.

Perry
Inspection / Activity Plan
09/01/2014 - 12/31/2015

Unit Number	Planned Dates		Inspection Activity	Title	No. of Staff on Site
	Start	End			
			BI PIR - BIENNIAL PROBLEM IDENT AND RESOLUTION		4
1	07/13/2015	07/31/2015	IP 71152B	Problem Identification and Resolution	
			BI RP - RADIATION PROTECTION BASELINE INSPECTION		1
1	09/21/2015	09/25/2015	IP 71124.02	Occupational ALARA Planning and Controls	
			BI FIRE - FIRE PROTECTION INSPECTION & BAG TRIP		3
1	09/21/2015	10/23/2015	IP 7111105T	Fire Protection [Triennial]	

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